

## PHOTOCHROMIC POLYURETHANE FILM OF IMPROVED FATIGUE RESISTANCE

### ABSTRACT

A photochromic polyurethane film of improved light fatigue resistance is disclosed. A stabilizer system combining two hindered amine light stabilizers and one phenolic antioxidant is incorporated in the photochromic polyurethane film in an amount so that the film will have more than 40% of light fatigue improvement and less than 6 units in  $\Delta b^*$  of CIELAB system after a given light fatigue test. The film can be conveniently laminated between two transparent plastic sheets and incorporated into a plastic article.